

## Product datasheet for **SC324155**

### 14 3 3 gamma (YWHAG) (NM\_012479) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	14 3 3 gamma (YWHAG) (NM_012479) Human Untagged Clone
Tag:	Tag Free
Symbol:	14 3 3 gamma
Synonyms:	14-3-3GAMMA; DEE56; EIEE56; PPP1R170
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_012479.2  
CAGCAGCCGCGAGCCGCTCGCGCCCGTCCCGCGGTTCGCGAGCTCCAGCCGCTCCTCCG  
GCAGCCGCGCCTCAGCTGCTCGCTCTGTGGTTCGCTCCTCCGCGACTTGGGCTCCAG  
TCGCGCCCTCCAAGCCCTTCAGGCGCCCAAGTGTCTCCTCCTTCTCCGCGCAGACCCA  
GCCCGCGAAGATGGTGGACCGCGAGCAACTGGTGCAGAAAGCCCGCTGGCCGAGCAGG  
CGGAGCGCTACGACGACATGGCCGCGGCCATGAAGAAGTGCAGAGCTGAATGAGCCAC  
TGTGCAATGAGGAACGAAACCTTCTGTCTGTGGCTACAAGAAGTTGTGGGGCAGCC  
GCTCTTCTGGAGGTCATCAGTAGCATTGAGCAGAAGACATCTGCAGACGGCAATGAGA  
AGAAGATTGAGATGGTCCGTGCGTACCGGGAAGATAGAGAAGGAGTTGGAGGCTGTGT  
GCCAGGATGTGCTGAGCCTGCTGGATAACTACCTGATCAAGAATTGCAGCGAGACCCAGT  
ACGAGAGCAAAGTGTCTACCTGAAGATGAAAGGGGACTACTACCGCTACCTGGTGAAG  
TGGCCACCGGAGAGAAAAGGGCGACGGTGGTGGAGTCTCTGAGAAGGCCTACAGCGAAG  
CCCACGAGATCAGCAAAGAGCACATGCAGCCACCCACCCATCCGATTAGGCCTGGCTC  
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CCATCGATTGTGTA CTTTTCTTTGCTAGTTGTTGGGCTTAAACATCCTTATTCAGCCT
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TGTGATGTTATGCAGTGAATTTTTAAGGTCTAATCAGTGATTATTTTCCAGCTCCG
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ATATCATGAATGTGAGTCATTATGTAGCTGTCGTACATTGAGCAAATAAACTTACAGATC
TGAAAAAAAAAAAAA
    
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**Restriction Sites:**

ECoRI-NOT

**ACCN:**

NM\_012479

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:**

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**Components:**

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_012479.2</a> , <a href="#">NP_036611.2</a>
<b>RefSeq Size:</b>	3747 bp
<b>RefSeq ORF:</b>	744 bp
<b>Locus ID:</b>	7532
<b>UniProt ID:</b>	<a href="#">P61981</a>
<b>Cytogenetics:</b>	7q11.23
<b>Domains:</b>	14-3-3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Cell cycle, Neurotrophin signaling pathway, Oocyte meiosis
<b>Gene Summary:</b>	<p>This gene product belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 100% identical to the rat ortholog. It is induced by growth factors in human vascular smooth muscle cells, and is also highly expressed in skeletal and heart muscles, suggesting an important role for this protein in muscle tissue. It has been shown to interact with RAF1 and protein kinase C, proteins involved in various signal transduction pathways. [provided by RefSeq, Jul 2008]</p>